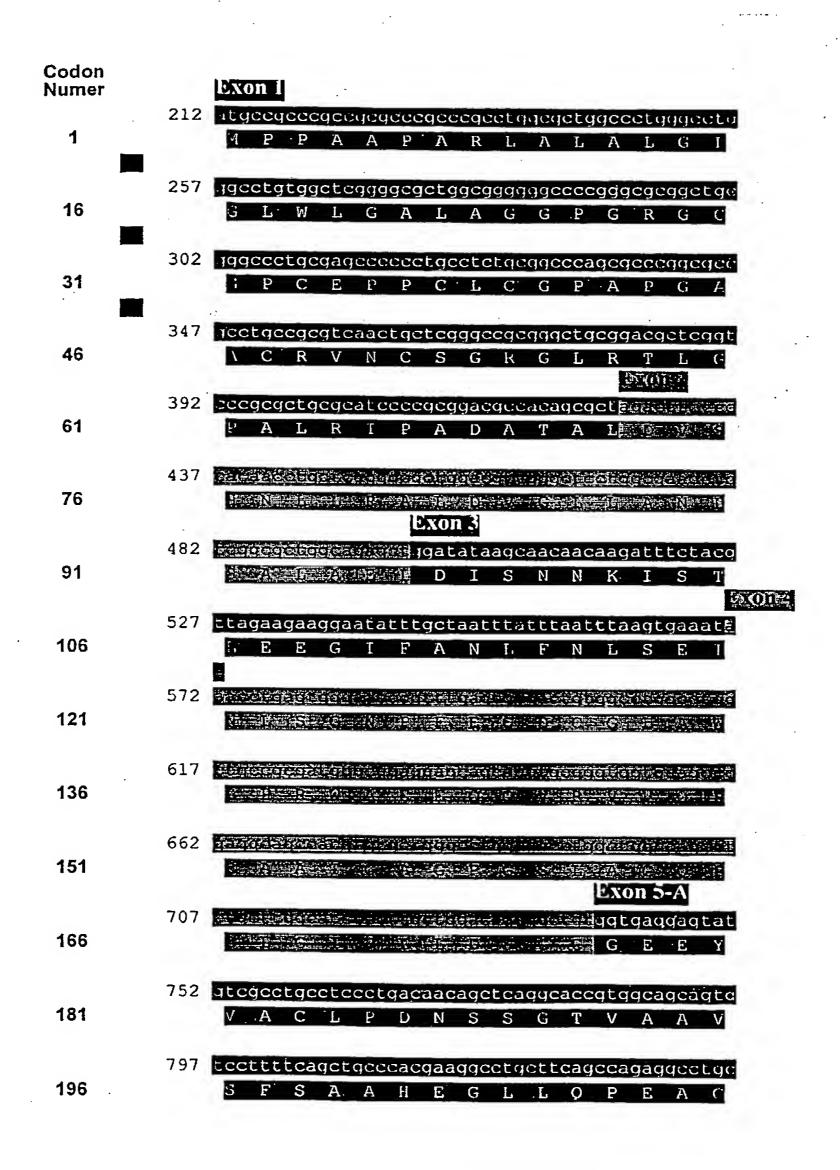
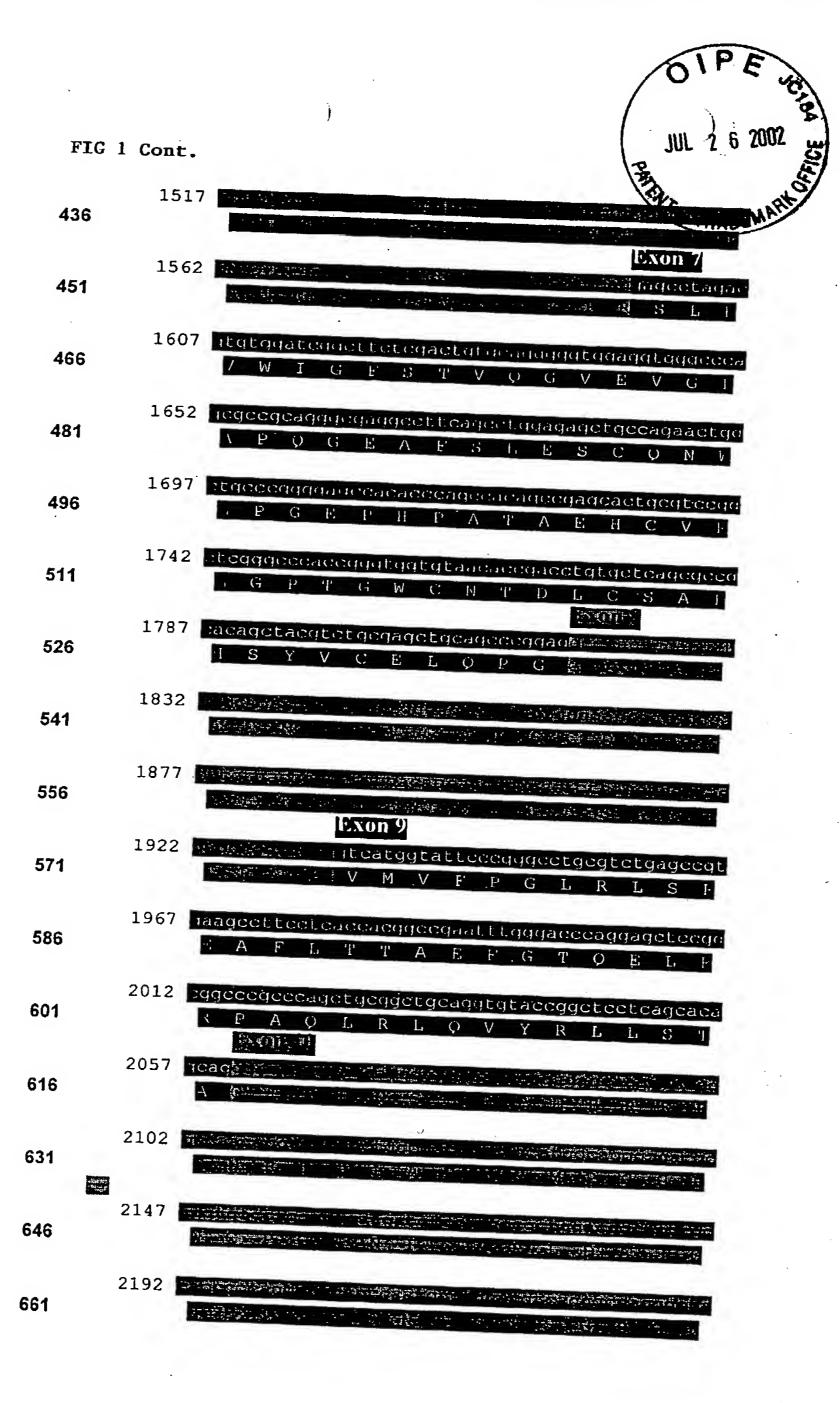
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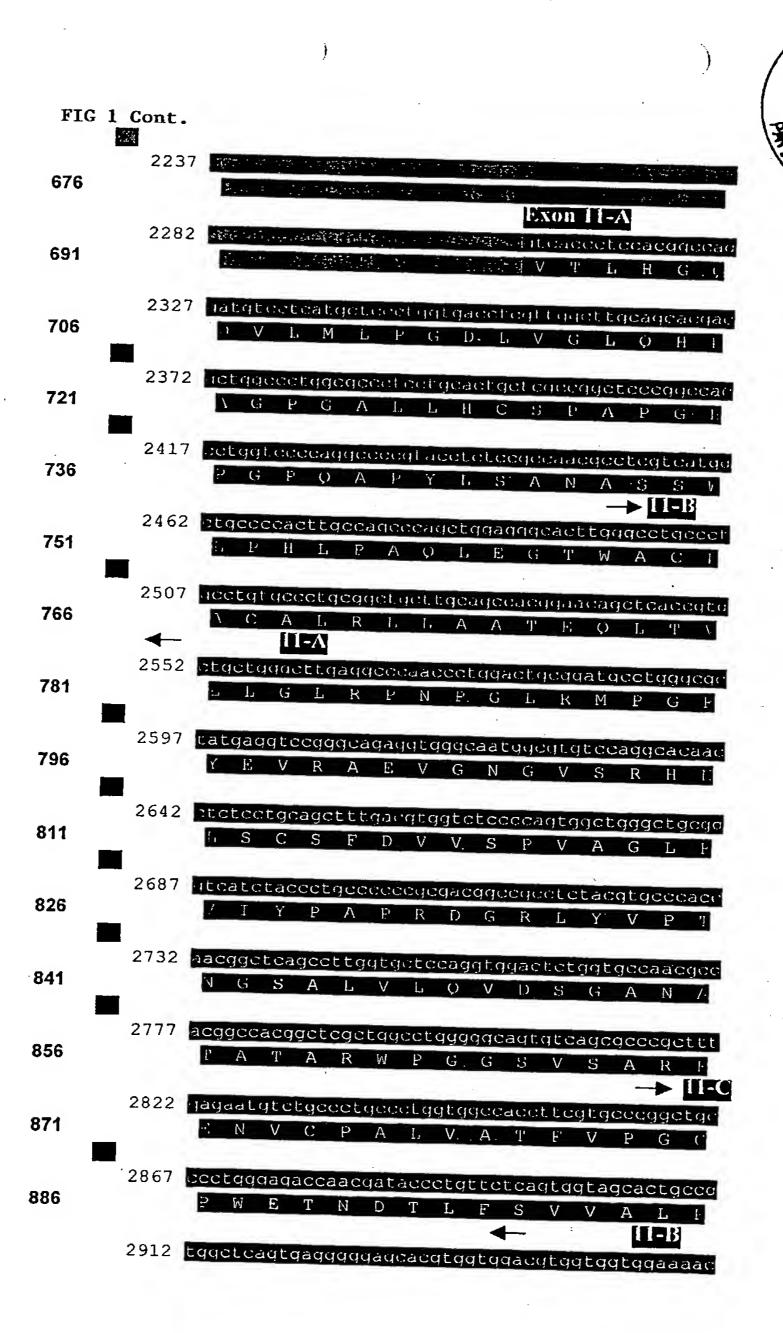


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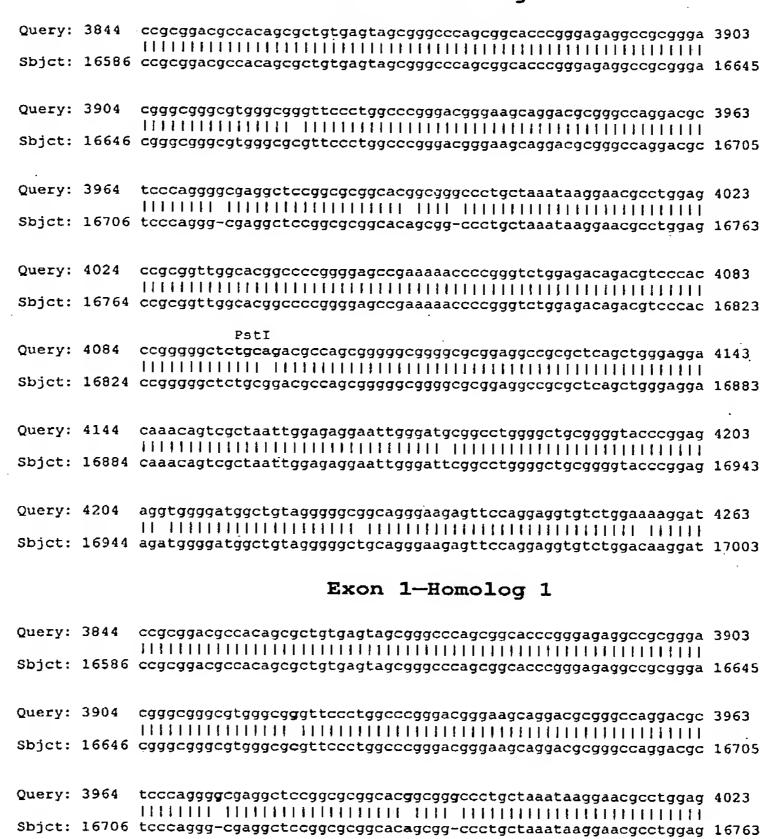


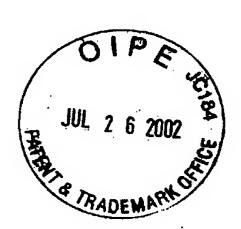
12812 4201 12857 4216 12902 4231 12992 4261 13037

4291

FIG 2

Exon 1-Homolog 1





Stretch of Exon 6-Homolog 1

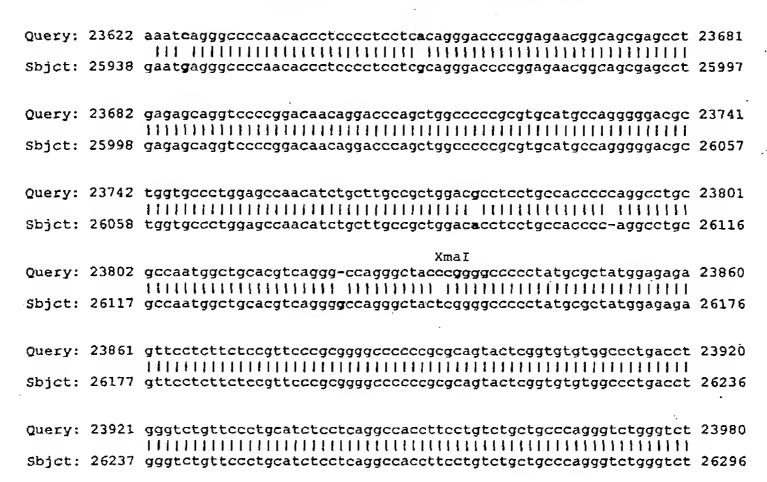
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Stretch of Exon 10-Homolog 1 -



Stretch of Exon 10-Homolog 2

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Sbjct:	65628	gaatgagggccccaacaccctcccctcctcgcagggaccccggagaacggcagcgagcct	65687
Query:	23682	gagagcaggtccccggacaacaggacccagctgqcccccgcgtgcatgccagggggacgc	23741
Sbjct:	65688	gagagcaggtccccggacaacaggacccagctggcccccgcgtgcatgccagggggacgc	65747
			,
Query:	23742	tggtgccctggagccaacatctgcttgccgctggacgcctcctgccacccccaggcctgc	23801
Sbjct:	65748	tggtgccctggagccaacatctgcttgccgctggacgcctcctgccacccc-aggcctgc	65806
Query:	23802	gccaatggctgcacgtcaggg-ccagggctacccggggccccctatgcgctatggagaga	23860
Sbjct:	65807		65866
Query:	23861	gttcctcttctccgttcccgcggggccccccgcgcagtactcggtgtgtggccctgacct	23920
Sbjct:	65867		65926
Query:	23921	gggtctgttccctgcatctcctcaggccaccttcctgtctgctgcccagggtctgggtct	23980
Sbjct:	65927	gggtctgttccctgcatctcctcaggccaccttcctgtctgctgcccagggtctgggtct	65986



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FIG 2 Cont.

Exon 11-Homolog 1

		.	
		agccctgcgtgtccaccctcatccgtcgtgcgggggtccacgggccatgaccgtgaggac	
Sbjct:	26604	agccctgcgtgtccaccctcatccgtcgtgcaggggtccacgggccatgaccgtgaggac	26663
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Sbjct:	26664	gtgatgcagccctgcctcccccacaggtcaccctccacagccaggatgtcctcatgc	26723
		teeetggtgacetegttggettgeageacgacgetggeectggegeeteetgeactget	
SDJCC:	20124	tccctggtgacctcgttggcttgcagcacgacgctggccctggcgccctcctgcactgct XmaI	26783
		cgccggctcccggccaccctggtccccgggccccgtacctctccgccaacgcctcgtcat	
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		ggctgcccacttgccagccagctggagggcacttgggcctgcct	•
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		tgcggctgcctgggcgctatgaggtccgggcagaggtgggcaatggcgtgtccaggcaca	
			· .
		acctetectgeagetttgacgtggtetececagtggetggggteggggteatetacectg	
		cccccgcgacggccgcctctacgtgcccaccaacggctcagccttggtgctccaggtgg	24806
		actetggtgccaacgccacggccacggctcgctggcctgggggcagtgtcagcgcccgct	
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			25046 27383
		agcccatctgtggcctccgcgccacgcccagccccgaggcccgtgtactgcagggagtcc	
		agcccatctgtggcctccgcgccacgcccagccccgaggcccgtgtactgcagggagtcc	



Exon 11-Homolog 2

-	agccctgcgtgtccaccctcatccgtcgtgcgggggtccacgggccatgaccgtgaggac 24326
`	gtgatgcagcctgcctccctctccacaggtcaccctccacggccaggatgtcctcatgc 24386
	tecetggtgacetegttggettgeageacgacgetggecetggegeetcetgeactget 24446
	cgccggctcccggccaccctggtccccgggccccgtacctctccgccaacgcctcgtcat 24506
	ggetgeeceacttgeeageecagetggagggeacttgggeetgeectgeetgtgeectge 24566
	ggctgcttgcagccacggaacagctcaccgtgctgctgggcttgaggcccaaccctggac 24626
	tgcggctgcctgggcgctatgaggtccgggcagaggtgggcaatggcgtgtccaggcaca 24686
	acctetectgeagetttgacgtggtetececagtggetggggteggggteatetaceetg 24746
	cccccgcgacggccgcctctacgtgcccaccaacggctcagccttggtgctccaggtgg 24806
	actctggtgccaacgccacggctcgctggcctgggggcagtgtcagcgcccgct 24866
	ttgagaatgtctgccctgccctggtggccaccttcgtgcccggctgcccctgggagacca 24926



Query:	24927		24986
Sbjct:	66954	atgataccctgttctcagtggtagcactgccgtggctcggtgagggggagcacgtgatgg	67013
Query:	24987	$\verb acgtg \verb gtg \verb gtg \verb acacc \verb acgtg \verb gtg \verb acacc \verb acgtg \verb gtg \verb gtg \end{tabular}$	25046
Sbjct:	67014	acgttgtggtggaaacagcgccagccgggccaacctcagcctgcgggtgacggcggagg	67073
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Sbjct:	67074		67133
Query:	25107	tagtggtgagtatggccgaggctccaccaccagccccaggcagg	25166
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Query:	25167	tgctcacacagggcgtgaggcctggcttcccagtgagggcagcagcccagttactgggga	25226
ahd at -	67104		
SDJCt:	6/194	tgctcacacagggcgtgaggcctggcttcccagtgagggcagcagccagttactgggga	67253



Exon 15-Homolog 1

	9 tgggacccttaaggctgggccgcaggtgcagccgttcaccccgggctcctcaggcgggg 2733 	
	9 gcttctgccgagcgggtggggagcaggtgggggtgccgcgggctgcccactcgggcctgt 2739 	
Query: 273	9 ccccacaggtgagtacctcctgaccgtgctggcatctaatgccttcgagaaccggacgca 2745	8
_	31 ccccacaggtgagtacgtcctgaccgtgctggcatctaatgccttcgagaaccggacgca 2984 59 gcaggtgcctgtgagcgtgcgcctccctgccctccgtg 27498 [[[]]]]]]]]]]]]]]]]]]]	•

Exon 15-Homolog 2

_			27338 69385
		gcttctgccgagcgggtggggagcaggtgggggtgccgcgggctgcccactcgggcctgt	
		cccacaggtgagtacctcctgaccgtgctggcatctaatgccttcgagaaccggacgca	
		gcaggtgcctgtgagcgtgcgcctccctgccctccgtggctgtgggtgtgagtga	27518 69565
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		ggtgagcggtgcggcccaggcggatgtgcgcgtctttgaggagctccgcggactcag	
Query:	27759	cgtggacatgagcctggccgtggagcagggcgcccccgtggtggtcagcgcgcggtgca	27818



Sbjct: 6	59806	
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		ggccagcccgccggccacctggcccggagcctgcacgtgctggtcttcgtcctggaggt 27998
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		MluI cacgaccgtgcgggggtgcccgacggtgacacacacattcacgcggagcggcacgttccc 28178 [
		cetggcgctggtgctgtccagccgcgtgaacagggcgcattacttcaccagcatctgcgt 28238
		ggagccagaggtgggcaacgtcaccctgcagccagagaggcagtttgtgcagctcgggga 28298
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Sbjct:	70646	cagetacctgtgggatctgggggacggtgggcggctcgagggtecggaggtcacccacgc	70705
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Sbjct:	70826	ctgcacggtggtgcccctgaatgggagcatgagcttcagcacctcgctggaggccggcag	70885
		tgatgtgcgctattcctgggtgctctgtgaccgctgcacgcccatccctgggggtcctac	
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_		catctctttacaccttccgctccgtgggcaccttcaatatcatcgtcacagctgagaacg	
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		aggggctgagctgggagacctccgagccatttaccacccatagcttccccacacccggcc	
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FIG :	2 Con	t.	
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		tcgtggcggccgggtcctctgtgcccttttgggggcagctggccacgggcaccaatgtga 	
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		tgagetgggeccaggegcaggtgegcategtggtgetggaggecgtgagtggggetgeagg	
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anjet:	16322	aggttcaggacgccgtccagtatgtggccctgcggagcggcccctgcttcaccaaccgct	72381



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	ggcctggggactaccgcgtgcaggtgaacgcctccaacctggtgagcttettcgtggcgc	
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	ttggggacacgccactgacacagagcatccaggccaatgtgacggtggcccccgagcgcc	
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	tccactgggcctgtgtggcttcgacacaggtcagtgcgtggcagggccgtcctccatgcc	
	cctcacccgtccacacccatgageccagagaacacccagcttgecaccagggctggcccg	

•



Exon 16-Homolog 2

	gggccgggctctgctttaaaactggatggggctctcaggccacgtcgcccttgttctcg	
	gcctgcagaggaggctggcgggtgtgcgctgaactttgggccccgcgggagcagcacgg	31295 73341
	tcaccattccacgggagcggctggcggtggagtacaccttcagcctgaccgtgt	
•	ggaaggccggccaaggaggaggccaccaaccagacggtgggtg	



Exon 20-Homolog 1

Query:	33189	agccaggccgtgggagggcccccgagactgccacctgctcaccacccc-ctctgctcg	33247
Sbjct:	31282	agccaggccgtgggagggcgccccgagactgccacctgctcaccaccccgctctgctcg	31341
Query:	33248	taggtctttggccatcaccctcccagagcccaacggcagcgcaacggggctcacagtctg	33307
Sbjct:	31342	taggtctctggccatcaccctcccagagcccaacggcagcgcaatggggctcacagtctg	31401
Query:	33308	gctgcacgggctcaccgctagtgtgctcccagggctgctgctgcggcaggccgatccccagca	33367
Sbjct:	31402	gctgcacgggctcaccgctagtgtgctcccggggctgctgctgcggcaggccgatccccagct	31461
Query:	33368	cgtcatcgagtactcgttggccctggtcaccgtgctgaacgaggtgagtgcagcctggga	33427
Sbjct:	31462		31521
		AatII	
Query:	33428	ggggacgtcacatctgctgcatgcgtgcttgggaccaagacctgtacccctgcctg	33487
Sbjct:	31522	ggggacetcacatetgetgeatgegtgetggggaceaagacetgtteecetgeetggage	31581

Exon 20-Homolog 2

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_	22255		
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Sbjct:	75322	gcccaacggcagcgcaatggggctcacagtctggctgcaccggctcaccgctagtgtgct	75381
		·	
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Sbjct:	75382		75441
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Exon 22-Homolog 1

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Query:	36779	ctgggtcatgcagagccacagaaaatgcttagtgaggaggctgtgggggtccagtcaagt	36838
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Sbjct:	32696		32 75 5
Query:	36899	gcgtgtgcaaggagtggggccaggagcggggctggacactgctggctccacacaggggcc	36958
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0	27070	NlaIII	126
		cagcatecteacateacaggtgccgcggcccgtgcccatgccacccgcccgcccc 373	
Sbjct:	32936	cagcatectcaacateacaggtgccgcggcccgtgccccacgccacccgcccgccc	992



Exon 22-Homolog 2

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Sbjct:	75958		76017
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Query:	37079	cagcatcetcaacatcacaggtgccgcggcccgtgccccatgccacccgcccg	135
Sbjct:	76138	cagcatcctcaacatcacaggtgccgcggcccgtgccccacgccacccgccccc 761	194



Exon 23-Homolog 1



		cctcctgtctctgcactgacctcacgcatgtctgcaggagacctcatccacctggccag 377	
		ctcggacgtgcgggcaccacagccctcagagctgggagccgagtcaccatctcggatggt 377	
-		ggcgtcccaggcctacaacctgacctctgccctcatgcgcatcctcatgcgctcccgcgt 378	
		ggcgtcccaggcctacaacctgacctctgccctcacgcccatcgtcacgcgctcccgcgt 335 gctcaacgaggagcccctgacgctggcggggagagatcgtggcccagggcaagcgctc 379	
Sbjct:	33584		i43
		ggacccgcggagcctgctgtgctatggcggcgccccagggcctggctgccacttctccat 379	
		MscI ccccgaggctttcagcggggccctggccaacctcagtgacgtggtgcagctcatctttct 380	
		ggtggactccaatccctttccctttggctatatcagcaactacaccgtctccaccaaggt 380	
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		agagegegecateaccgtgaaggtgeccaacaacteggactggetgeceggggecaccg 382	
-			
		cageteegeeaacteegeeaacteegttgtggteeageeecaggeeteegteggtgetgt 382	
		ggtcaccctggacagcaaccctgeggccgggctgcatctgcagctcaactatacgct 38:	
		gctggacggtgcgtgcagcgggtggggcacacgcggccccctggccttgttcttgggggg 383 	



Exon 23-Homolog 2

	cctcctgtctctgcactgacctcacgcatgtctgcaggagacctcatccacctggccag 377	
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	ggcgtcccaggcctacaacctgacctctgccctcatgcgcatcctcatgcgctcccgcgt 378 [[[]]][[]][[]][]][][][][][][][][][][][
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	ggacccgcggagcctgctgtgctatggcggcgccccagggcctggctgccacttctccat 379	
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	ggtcaccctggacagcagcaccctgcggccgggctgcatctgcagctcaactatacgct 38.	
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FIG 2 Cont.

Exon 29 and 30-Homolog 1

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Sbjct:	37448	
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Query:	41835	tgtccaggctgagcccgctgagcgtcgacacagtcgctgttggcctggtgtccagcgtgg 41894
		tgtccaggctgaacccgctgagcgtcgacacagtcgctgttggcctggtgtccagcgtgg 37627
02,000	0,000	
Query:	41895	ttgtctatcccgtctacctggccatcctttttctcttccggatgtcccggagcaaggtgg 41954
Sbjct:	37628	ttgtctatcccgtctacctggccatcctcttctcttccggatgtcccggagcaaggtgg 37687
0	41005	AvrII or BlnI
		gctggggctggggacccgggagtactgggaatggagcctgggcctcggcaccatgcctag 42014
Sbjct:	37688	gctggggctggggacccgggagtactgggaatggagcctgggcctcggcaccatgcccag 37747
Query:	42015	ggccgccactttccagtgctgcagccagagggaaaggcgtccaccaaaggctgctcggga 42074
s	bjct:	

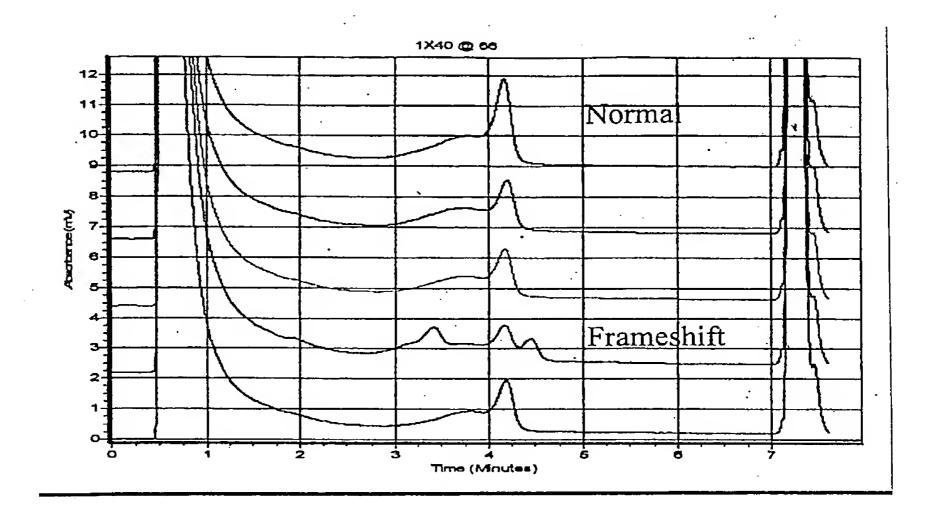


FIG 2 Cont.

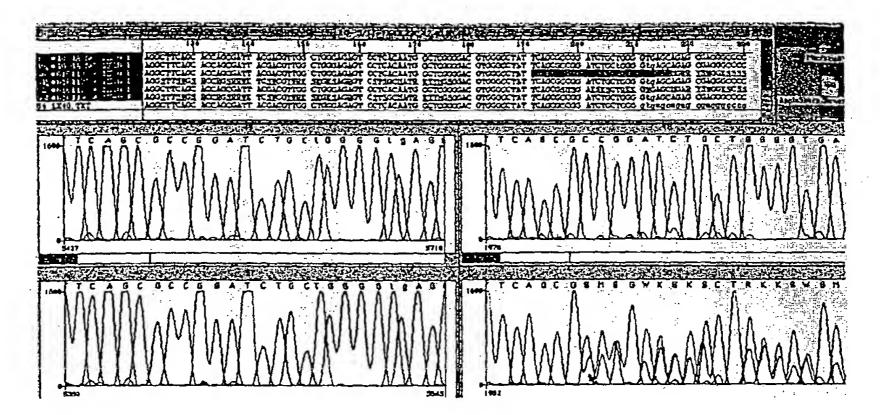
Exon 29 and 30-Homolog 2

Query:	41535	ttttgcgcttccggcgcctgctggtggctgagctgcagcgtggcttctttgacaagcaca	41594
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Sbjct:	80680	tetggetetecatatgggaceggecacetegtagetgtttcactegeatecagagggeca	80739
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. Sbjct:	80800	ttggtgactctgcctacaggtgggtgccgtaggggtcgggacagcctcttcctgcccagc	.80859
Query:	41775	ccttcctgcccctcagcctcacctgtgtggcctcctctcctccacacagcacggggcatg	41834
Sbjct:	80860	ccttcctgccctcagcctcacctgtgtggcctcctctcctccacacagcacggggcatg	80919
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		tgtccaggctgagcccgctgagcgtcgacacagtcgctgttggcctggtgtccagcgtgg	80979
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Sbjct:	80980	ttgtctatcccgtctacctggccatcctctttctcttcccggatgtcccggagcaaggtgg	81039
Query:	41955	gctggggctggggacccgggagtactgggaatggagcctgggcctcggcaccatgcctag	42014
		gctqqqqctqqqqaccqqqqatactqqqaatqqaqcctqqqcctcqqcaccatqcccaq	
Query:	42015	ggccgccactttccagtgctgcagccagagggaaaggcgtccaccaaaggctgctcggga	42074
Sbjct:	81100	ggccgccactttccagtgctgcagccagagggaaaggcgtccaccaaaggctgctcggga	81159

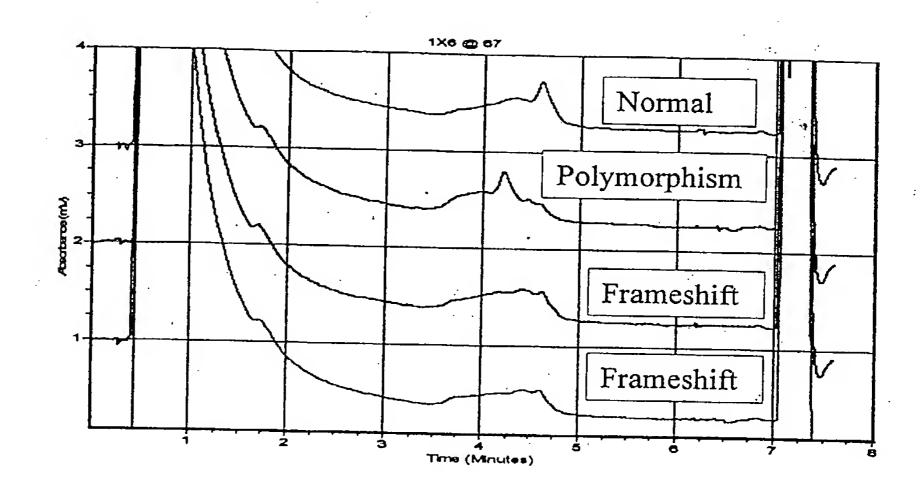




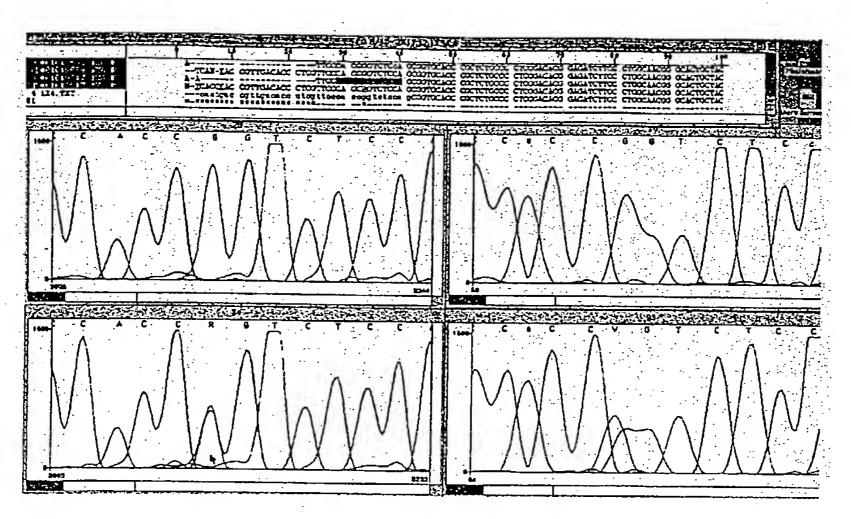




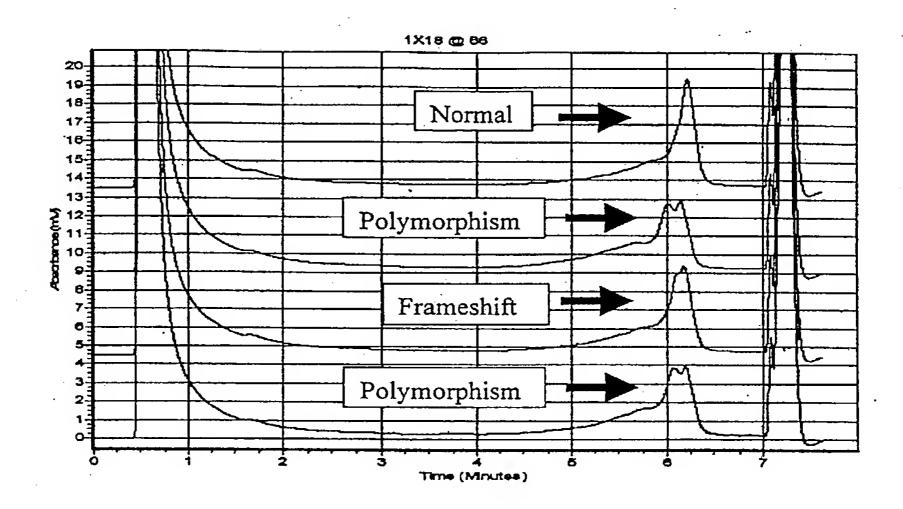




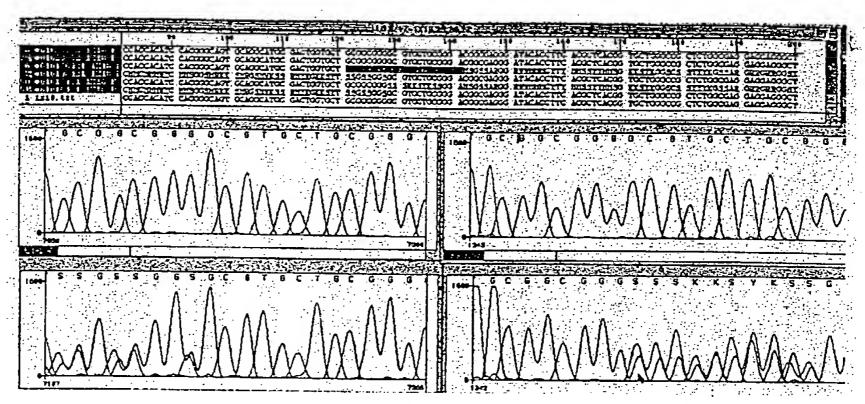














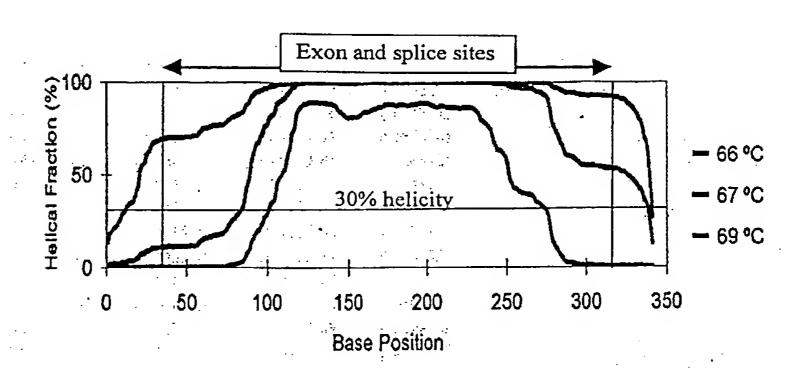




FIG 10 A

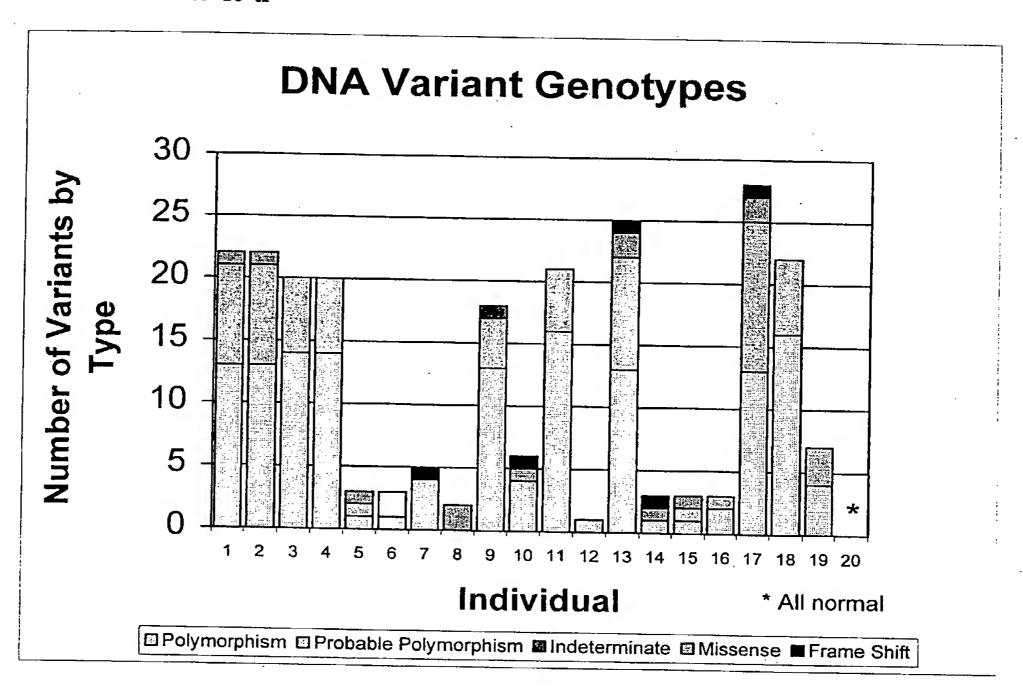




FIG 10 B

	Polymorph	Probable	Missense	Frame Shi	Indetermina	ite
1	13	8	1	0	0	22
2	13	8	1	0	0	22
3	14	6	0	0	0	20
4	14	6	- 0	0	0	20
5	1	1	. 1	0	0	3
6	1	2	0	0	0	3
7	4	0	. 0	· 1	. 0	5
8	0	0	2	0	0	2
9	13	4	0	0	1	18
10	4	0	1	1	0	6
11	16	5	0	0	0	21
12	0	1	0	0	0	· 1
13	13	9	2	· 1	0	25
14	1	0	1	1	0	3
15	1	1	1	0	0	3
16	2	1	0	0	0	3
17	13	12	2	1	0	28
18	16	6	0	0	0	22
19	4	3	0	0	0	7
20	0	0	0	0	0	0

FIG 11

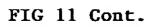
			Ampli-	Temp	PC Ret	PC	NC Ret	NC
Gene		Exon	con		Time	Height	Time	Height
					·			
1	Х	1						
1	X	2		66	2.25-6.5	0.8-3.2	2-6.5	0.9-3.6
1	X	2		67	0.7-5.8	0.8-3.2	0.7-5.8	1-4
1	X	3		56	4.2-6.8	1-4	4-6.75	1.1-4.4
1	Х	3		57	3.5-6.5	0.7-2.8	4-6.5	1-4
1	Х	4		66	2-6.8	1-4	2-6.8	0.8-3.2
1	Х	4		67	1.5-6	0.5-2.0	1.5-6	1.1-4.4
1	X	5	Α	66	2.6-4.6	1.3-5.4	2.7-4.7	1.3-5.2
1	X	5	В	67	2-6.5	0.4-7.0	3-6.5	0.5-4.6
1	X	5	O	67	3-6.5	1-4	3-6.5	1.2-4.8
1	X	5	C	68	1.7-5.8	0.7-2.8	2.5-5.8	1-4
1	X	6.		66	3.5-5.9	0.3-1.5	3.9-5.9	1.0-4.2
1	X	6		67	2.5-5.4	0.5-2.0	3.4-5.4	1-4.2
1	Х	6		68	2.2-4.8	0.3-1.4	2.8-4.8	0.7-3.0
1	X	7		66	2.7-6.25	0.5-2.0	3-6.25	0.6-2.4
1	X	7		68	1.5-5	0.9-3.6	1.5-5	0.6-2.4
1	Х	8		68	1.5-5	1.3-5.2	1.7-5	1-4
1	X	9		67	3.5-6.5	0.5-2.0	3.5-6.8	0.25-2.0
1	Χ	10		65	2.5-6.5	0.9-3.6	3-6.5	1.9-7.6
1	Х	10		67	1.5-5	1.5-6	1.5-5	2-8
1	Х	11	Α	67	1.5-6.5	0.7-2.8	2-6.5	2-8
1	Х	11	Α	68	1.5-5.5	0.8-3.2	2-5.8	1.3-5.2
1	Х	11	В	66	3-6.8	1-4	3-6.8	1-4
1	Х	11	В	67	2-6	1.5-6	2-6	1.2-4.8
1	X	11	С	66	4.2-6.2	1.5-6	4.2-6.2	2.5-10.2
1	Х	11	С	67	3.6-5.6	1.7-7	3.6-5.6	2.3-9.2
1	X	11	С	68	2.9-4.9	1.1-4.6	2.8-4.8	1.7-6.8
1	X	12		63	4.4-6.6	0.6-2.4	4.7-6.7	1-4
1	X	12		65	2.8-4.8	0.4-1.6	2.6-5.4	0.4-1.8
1	X	13					2.0 0.1	0.4 1.0
1	X	14		66	1.5-5.5	0.6-2.4	0.7-5.5	0.6-2.4
1	X	15	A	67	2.5-6.5	0.8-3.2	2.5-6.5	1-4
1	X	15	A	68	1.5-5.75	1-4	1.5-5.75	1.2-4.8
1	×	15	В	67	2-5.75	0.5-2.0	2.75-5.75	1-4
1	- <u>`</u> X	15	В	68	1.5-5.25	0.6-2.4	2.75-5.75	0.9-3.6
1	×	15	C	68	2-6.5	0.4-1.6	2-6.5	0.8-3.2
1	X	15	C	69	1.5-6	0.5-2.0	1.5-6	
1	X	15	D	67	3.75-7.25	1.5-6		0.75-3.0
1	X	15	D	68	3-6.5		3.75	7.25
1	X	15	E	65	 -	1-4	3-6.5	1.2-4.8
1		15	E	66	3-6.5	1-4	3-6.5	1.5-6
1	X	├ ──	F		2-6	0.8-3.2	2-6	1.3-5.2
	X	15		65 66	4-7	1.4-5.6	3.75-7	1.2-4.8
1	X	15	F	66	3-6.5	1-4	3-6.5	1-4
1	X	15	F	67	1.5-5.75	1.3-5.2	1.5-5.75	1-4
1	X	15	G	66	3-6	0.8-3.2	3-6	1.1-4.4
1	Х	15	G	68	1.5-4.5	1-4	1.5-4.5	1.5-6



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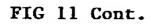
FIG 11 Cont.

1	Х	15	Н	65	2-6.5	1.5-6	2-6.5	1.5-6
1	х	15	Н	66	1.5-5.5	1-4	1.5-5.75	1-4
1	×	15	ı	66	3-7	2-8	3-7	1.8-7.2
1	×	15		67	2.5-6.5	1.5-6	2.5-6.5	1.5-6
1	×	15	J	64	4-7.5	2.2-8.8	4-7.5	2-8
1	×	15	J	65	4-7	2-8	4-7	1.5-6
1	Х	15	J	66	3-6.5	1.5-6	2-6.5	1.1-4.4
1	X	15	K	65	3.5-6.5	1-4	3.75-6.5	0.8-3.2
1	×	15	K	66	3-6.5	0.7-2.8	3.5-6.5	0.6-3.2
1	X	15	K	67	2-6	0.6-2.4	2-5.5	0.5-2.0
1 -	×	15	L					
1	х	15	M	66	4.5-7	1-4	4.5-7	1.5-6
1	X	15	М	67	4-6.75	1-4	4-6.75	1.3-5.2
1	×	15	N					
1	X	16		67	1.5-5.5	2.25-9	2.0-5.5	3-13
1	X	17		65	2.5-6	1.5-6	2.5-6	1.75-7
1	X	17		66	1.5-5	1.25-5	1.5-5	1.75-7
1	×	18		66	3-6.5	2-8	3-6.5	3.25-13
1	X	18		67	4-6.4	3.8-16	4.25-6.25	6.2-24.8
1	×	18		68	1.5-5	2.5-10	1.5-5	2.75-11
1	Х	19		67	3-6.5	1.5-6	3-6.5	3-12
1	×	19		68	3.0-6.5	1.5-6	3-6.5	3-12
1	Х	20		65	3.5-6.5	2-8	3.5-6.5	2.25-9
1	X	20		66	2.5-6	1.25-5	2.5-6	1.75-7
1	х	20	· · · · · · · · · · · · · · · · · · ·	67	1.5-5.5	1.25-5	1.5-5.5	1.75-7
1	х	21		65	3-7	1.5-6	3-7	4-16
1	×	21		67	1.5-5.5	2.25-9	1.5-5.5	4.5-18
1	×	22		66	4-7.5	2-8	4-7	2-8
1	х	22	1.41.0-1	67	3-7.25	1.5-6	3.5-6.5	1.5-6
1	Х	23	Α	65	3.5-6.5	0.75-3.0	3.5-6.5	1.5-6.0
1	×	23	Α	66	2.5-6.0	0.5-2.0	2.5-6.0	1.25-5.0
1	Х	23	Α	68	1.5-4.5	2.5-10.0	1.5-4.5	2.5-10.0
1	×	23	В	63	3.5-7.25	1.5-6	3.5-7.25	1.5-6
1	X	23	В	66	1.5-6.5	0.9-3.5	1.5-6.5	1-4
1	X	23	В	67	1.25-5.5	1-4	1.25-5.5	1-4
1	X	23	С	61	3-6.25	1.5-6	3-6.25	3.25-13
1	X	23	C	66	1.5-5	2.25-9	2.5-5	4.25-17
1	Х	23	С	67	1.5-5	2.75-11	2-5	5.5-22
1	X	24		65	2.5-6.0	0.5-2.0	2.5-6.0	0.6-3.0
1	X	25	w	65	2-6	0.7-4	2-6	0.7-4
1	X	25		67	1.5-4.5	2-8	1.5-4.5	2-8
1	X	26		64	2.5-6	0.9-3.6	2.5-6	0.9-3.6
1	X	26		66	1.5-4.5	1.75-7	1.5-4.5	1.75-7
1	X	27		65	3.5-6.7	1.75-7	3.5-6.7	
1	X	27		66	2.5-6	2-8	· 	1.5-6
1	X	28		66	1.5-5.75		2-5.7	1.25-5
1		29		65		1-4	1.5-5.75	1-4
1	X			 	1.5-6.25	1.5-6	1.5-6.25	3-12
	X	29		66	1.5-5.25	1.5-6	1.5-5.25	2.5-8.5
1	X	30			I			



110	11 00							
1	×	31		66	3-6.5	2.5-10	3-6.5	1-4
1	×	31		68	1.5-5.5	1.5-6	1.5-5.5	0.5-2
1	×	32		62	2-6.5	1.25-5.0	2-6.5	3.5-14
1	×	33		64	4.2-6.2	1.4-6	4.3-6.3	1.5-6
1	Х	33		67	2.5-4.7	0.8-3.5	2.7-4.7	1.2-4.8
1	×	34						
1	X	34	İ	,		1		<u> </u>
1	×	35		64	4.3-6.6	1.4-5.5	4.5-6.5	2.4-9.5
1	х	35		66	2.6-5.1	1.1-4.4	3.1-5.1	1.75-7
1	×	36		66	3.3-5.7	0.5-2.0	3.6-5.6	1-4
1	×	36		67	2.7-5.1	0.6-2.5	3.1-5.1	1.1-4.4
1	Х	37		64	3-5.75	0.65-2.6	3.7-5.7	1.1-4.5
1	×	37		66	2-4.75	0.9-3.6	2.7-4.7	1-4
1	×	38		65	3.5-6.5	1.1-4.5	4.3-6.3	1.6-6.5
1	X	38		66	3-5.75	0.7-3.0	3.5-5.5	1-4
1	X	39		66	1.5-4.5	1.1-4.6	2-4.6	1.25-3.0
1	х	39		67	1.5-4	1.25-3.0	1.5-4	0.7-3.0
1	×	40		66	1.5-5.5	0.6-2.5	3.25-5.25	0.7-3.0
1	X	41		67	2.5-5.75	0.9-3.6	3.75-5.75	1.1-4.4
1	×	42		70	2.75-5.75	0.5-2.0	3-5.8	0.3-1.2
1	Х	42		71	2.5-4.5	0.7-3.0	2.6-4.6	0.6-2.4
1	×	43		67	4-6.75	0.4-1.6	4-6.75	0.6-2.4
1	Х	43		68	3.75-6.5	0.4-1.6	3.75-6.5	0.6-2.4
1	X	43	•	70	2.25-5.25	0.25-2	2.25-5.25	0.6-2.4
1	X	44		66	3.25-5.75	0.5-2.0	3.7-5.7	0.8-3.2
1	X	45		65	3.5-6.25	0.4-1.6	4.1-6.1	0.9-3.6
1	х	45		66	2.5-5.5	0.4-1.6	3.5-5.5	0.8-3.2
1	×	46	Α	66	4.25-6.5	0.4-1.6	4.4-6.4	0.8-3.2
1	×	46	Α	67	3.25-5.25	0.3-1.2	3.5-5.5	0.5-2.0
1	х	46	В	65	4-6.75	1-4	4-6.75	1.2-4.8
1	Х	46	В	68	1.75-4.75	1.3-5.2	1.75-4.75	1.5-6
2	Х	1	Α	70	3-6	1.5-6	3-6	1-4
2	Х	1	Α	71	2-5.75	0.6-2.4	2-5.75	0.9-3.6
2	Х	1	Α	72	1.5-5.25	0.5-3.0	1.5-5.25	0.5-2
2	Х	1	В	67	2.5-6.5	0.6-2.5	2.5-6.5	0.6-2.5
2	Х	1	B	70	1.5-4.5	0.7-3	1.5-4.5	1-4
2	Х	1	В	71	1-4	0.5-2	1-4	0.7-3
2	Х	1	С	69	2.5-6.5	1.25-5	2.5-6.5	1-4
2	Х	1	С	70	1.5-6.5	0.8-2.5	1.5-6.5	0.8-3.5
2	Х	1	ပ	71	1.5-5.75	0.8-3.5	1.5-5.75	0.8-3.5
2	Х	2		58	2.5-4.5	1.2-5.0	3.2-5.2	1.4-5.6
2	X	3		58	4.7-6.9	2.9-11.6	4.9-6.9	3.5-14
2	X	3		59	4.4-6.9	2.1-8.4	4.7-6.7	2.0-8.0
2	X	3		60	3.5-6.1	1.3-5.2	3.9-5.9	1.6-6.4
2	Х	4		60	3.4-6.1	1.7-7.0	4.1-6.1	0.9-3.8
2	Х	5		58	4.5-6.5	2.3-9.2	4.6-6.6	2.3-9.4
2	Х	5		59	3.9-6.2	1.6-6.6	4.3-6.3	1.7-6.8
2	Х	6		57	1.5-6.25	1.5-6	1.5-6.25	2-8
- 2	Х	7		53	3.4-6.6	1.2-5.0	3.3-6.6	1.0-4.0
		·		·				





	<u></u>						
2	×	7	56	2.5-4.5	2.5-10.2	2.6-5.2	1.1-4.4
2	х	8	54	3.7-6.2	1.5-6	3.7-6.2	5.5-22
2	×	8	58	3-6	0.8-3.2	2.5-6	4-16
2	X	9	54	3-6.5	0.5-2.0	3.5-6.5	1-4
2	×	9	57	1.5-4.75	0.5-2	1.5-4.75	0.5-2.0
2	Х	10			1		
2	×	10				 	
2	X	11	58	2.5-6.75	2.3-9.2	2.5-6.75	2-8
2	X	11	59	1.75-6.5	1.5-6	1.5-6.5	1-4
2	Х	12	60	1.5-5.75	0.7-2.8	1.5-5.5	0.8-3.2
2	×	13	60	3-6.2	1.2-4.8	4.2-6.2	1.2-5
2	x	13	61	2.5-5.5	1.2-5	2.5-5.5	0.9-4.0
2	X	14	63	2.5-4.5	1.1-4.4	3.2-5.2	2.5-10.0
2	X	15	60	2-6.5	0.9-3.6	2-6.5	1-4
2	· X	15	61	1.5-6	1.3-5.2	1.5-6	1.5-6



FTG	12

•		12																		•		78		CAR	r
Varified			Ampl	Long	Ма	DMSO	<u> </u>	Γ''	Initial	Initial	#	Cycle	Cycle					Final	Final	LR		**	TURA	76	Plate
Ву	$\vdash \vdash$	Exon	con	Range	111	-	Annesi		Denatur	Denature				Anneal	Anneal	Ext	Ext	Ext	Ext	Dilution		Exon	con	condition	set
				PCR			Temp		Temp	Time		Temp	Time	Temp	Time	Temp	Time	Temp	Tim●						
5444 1274 9	12.18	湖水	沙溪流	凝比線	1.5	7.50%	180	A 14	14.04	* to min	35	33194	20 500	2:60	20 sec	72	45 sec	÷72	5 min	5.10 ⁴ -5	- 1 .,	にない	2000	tea taid	2011章
								L						,										-ALWINI LIXING	
	16	12		้เง	1.5	0	55		94	10 min	35	94	30 sec	55	30 sec	72	30 sec	72	10 min	-5	16	12		2	2
1	2	2		L2	1	0%	61		94	10 min	35	94	30 sec	61	30 sec	72	30 sec	72	10 min	-5	2	2		3	3A
	4	4		L2	1	7.50%	61	1	94	10 min	35	94	30 sec	61	30 sec	72	30 sec	72	10 min	-5	4	4		3	3A
	5	5	_ <u>^</u>	1.2	1	7.50%	61		94	10 min	35	94	30 sec	61	30 sec	72	30 sec	72	10 min	-5	5	5	_ <u>^</u>	3	3A
ļ	6		В	12	1	7.50%	61		94	10 min	35	94	30 sec	61	30 sec	72	30 sec	72	10 min	-5	8		В	3	3A
	7		<u> </u>	- 12		7.50%	61	<u> </u>	94	10 min	35	94	30 sec	61	30 sec	72	30 sec	72	10 min	-5	7		<u> </u>	3	3A
	8	0	-	L2 L3	1.5	7.50%	81		94 94	10 min	35	94	30 sec	61	30 sec	72	30 sec	72	10 min	-5 -5	10	8		3	3A
	10	8	}	L3	1.5	Ö	61		94	10 min	35	94	30 sec	61	30 sec	72	30 sec	72	10 min	-5 -5	11	9		3	38 38
	12	10	-	13	1.5	ö	61		94	10 min	35	94	30 sec	61	30 sec	72	30 sec		10 min		12	10		3	38
	15	 -	С	1.3	1.5	0	81	\vdash	94	10 min	35	94	30 sec	61	30 sec	72	30 sec	72	10 min		15	 '`	c	3	3B
	9	7		12	1.5		61	 	94	10 min	35	94	30 sec	61	30 sec	72	30 sec	72	10 min	-5	9	7	1	3	38
	3	3		12	2	0%	81		94	10 min	35	94	30 sec	61	30 sec	72	30 sec	72	10 min	+	3	3		3	3B
	17	13	-	L4	1.5	7,50%	62		94	10 min	35	94	20 sec	62	30 sec	72	45 sec		10 min	-5	17	13		4	4A
-	18	14		L4	1.5	7.50%	62		94	10 min	35	94	20 sec	82	30 sec	72	45 sec	72	10 min	-5	18	14	<u> </u>	4	4A
	13	11	٨	L3	1.5	0	70		94	10 min	35	94	30 sec	70	30 sec	72	30 sec	72	10 min	-5	13	11	A	5	5A
	14		В	L3	1.5	0	70		94	10 min	35	94	30 sec	70	30 sec		30 sec	72	10 min		14		В	5	5A
			L			Ĺ					L	L													· 1
	19	15		L4	1.5	0	62		94	10 min	35	94	20 sec	62	20 sec	72	45 sec	72	5 min	10-4	19	15	A	6	64
	20		В	1.4	1.5	0	62		94	10 min	35	94	20 sec	62	20 sec	72	45 sec	72	5 min	10-4	20	Γ	В	6	6A
,	21	<u> </u>	c	1.4	1.5	0	62		94	10 min	35	94	'20 sec	62	20 sec	72	45 sec	72	5 min	10-4	21	<u> </u>	T c	6	BA
	22		D	14	1.5	0	62		94	10 min	35	94	20 sec	62	20 sec	72	45 sec	72	5 min	10'4	22	 	Ď	6	6A
	23	_	E	L4	1.5	0	62		94	10 min	35	94	20 sec	62	20 sec	72	45 sec	72	5 min	10-4	23		E	. 6	6A
	24		F	L4	1.5	0	62		94	10 min	35	94	20 sec	62	20 sec	72	45 sec	72	5 min	10-	24		F	6	6A
	25		3	L4	1.5	ō	62	1	94	10 min	35	94	20 sec	62	20 sec	72	45 sec	72	5 min	10-4	25	1	G	6	68
	28		Н	L4	1.5	0	62	1	94	10 min	35	94	20 sec	62	20 sec	72	45 sec	72		10-4	28	1	H	8	68
	27		'''	L4	1.5	ō	62	1	94	10 min	35	94	20 sec	62	20 sec	72	45 sec	72	5 min	+ -	27	 	 	8	68
	28		 	L4	1.5	0	82	 -	94	10 min	35	94	20 sec	62	20 sec	72	45 sec	72	5 min	 	28	 	1 ;	6	6B
		 	K	14	1.5	0	82	 	94		35	94	20 sec	62	20 sec	72	45 sec	72	5 min		29	├──	K	6	68
	29			L5	 	2.50%	82	┢	94	10 min	•					72	45 sec	72			32		N	6	68
	32		N M	Genomi	1.5	0	58	-	94	10 min	35	94	20 sec	82	20 sec	72	45 sec	72	5 min		31	 	M	7	7A
-	30		<u></u>	L4	1.5	2.50%	68	\vdash	94		35	94	20 sec	68	20 sec	72	45 sec	72	5 min		30		L	 − − − − − − − − − − − − − − − − − − −	7A
	30	 -		- 64	1.5	2.5076	90		- 27	10 min_	35	3-	20 300	- 00	20 360	1-12-	43 840	-12	3 (1)41	10	1.30		 		
}	33	16	 	L5	1.5	0	60	 	94	10 min	35	94	20 sec	60	30 sec	60	40 sec	72	10 min	4	33	18	 	8	BA
	40	23	A	L7	1.5	0	62	╫	94	10 min	35	94	20 sec	82	30 sec	72	40 sec	72	10 min		40	23		9	9A
-	41	1 23	Î B	<u> </u>	1.5	1 6	82	 	94	10 min	35	84	20 sec	82	30 sec		40 sec	72	10 min		41	1	B	9	9A
	42	 	Č	L7	1.5	0	82	 	94	10 min	35	94	20 sec	62	30 sec	72	40 sec	72	10 min		42		Ċ	9	9A
	43	24		L7	1.5	0	62	<u> </u>	94	10 min	35	94	20 sec	62	30 sec	72	40 sec	72	10 min		43	24		9	9A
	44	25		L.7	1.5	0	82	1	94	10 min	35	94	20 sec	62	30 sec	72	40 sec	72	10 min	4	44	25		9	9A
	45	26		L7	1.5	0	62		94	10 min	35	94	20 sec	62	30 sec	72	40 sec	72	10 min	-4	45	26		9 -	9A
	46	27	T	L7	1.5	0	62		94	10 min	35	94	20 sec	62	30 sec	72	40 sec	72	10 min	-4	46	27		9	A8
	35	18		L5	1,5	0	84		94	10 min	35	94	20 sec	64	30 sec	64	40 sec	72	10 min	-4	35	18		10	10A
	37	20		L5	1.5	0	64		94	10 min	35	94	20 sec	64	30 sec	64	40 sec	72	10 min	-4	37	20	1	10	10A
	47	28		L7	1.5	0	64		94	10 min	35	94	20 sec	64	30 sec	64	40 sec	72	10 min	-4	47	28		10	10A
	48	29		LB	1.5	0	64		94	10 min	35	94	20 sec		30 sec	•	40 sec		10 min	+	48	29		10	10A
	39	22	 _	L6	1.5	,	84	ļ	94	10 min	35	94	20 sec		30 sec		40 sec		10 min		39		ļ	10	10A
<u></u>	34	17	ļ	L5	1.5	0	87	 	94	10 min	35	94	20 sec	67	30 sec	_	40 sec		10 min		34	+	ļ	11	11A
	38	19		L5_	1.5	_	67	1	94	10 min	35	94	20 sec	67	30 sec	-	40 sec		10 min	-	36	19	 	11	11A
	38	21	 -	L5_	1.5	+	89	 	94	10 min	35	94	20 sec	69	30 sec		40 sec		10 min		38		1	12	12A
	49	30	_	L8	1.5	1 0	72	-	94	10 min	35	94	20 sec	72	30 sec	72	40 sec	72	10 min	4	49	30		13	13A
	 			ļ <u>.</u>	1	7.55		 	1	42 :	1	 			100	 -=-	45		140	1.65 -			-	4	1 444
	53	33	 	LB	-	7.50%	58	 	95	10 min	35	94	20 sec	58	30 sec					:10 -5			 	14	14A
	54	34		LB		7,50%		-	95	10 min	35	94	20 sec	58	30 sec		•		• • • • • • • • • • • • • • • • • • • 	:10 -4	+	•	₩	14	14A
	54	-	-	 		7.50%		-	95	10 min	35	94	20 sec		30 sec	• -	45 sec		10 min		54	42	+	14	14A 14A
-	61 59	42	+	 	1.5		58	+	95	10 min	35	94	20 sec	58	30 sec	+	-	-	10 min	+	59	+	+	14	14A
	84	45	 	 	1.5		58	+	95	10 min	35	94	20 sec		30 360				10 min		04	45	+	14	14A
	62	+	 	 		7.50%		+	95	10 min	35	94	20 sec	82	30 sec	-	45 sec	_	10 min	_	62	-	1	15	15A
 	58	+	+	 		7.50%		 	95	10 min	35	94	20 sec	·	30 sec		45 sec		10 min	+	58	-4	1	15	15A
	58	39	 	 		7.50%		+	95	10 min	35	94	20 sec		30 sec				10 min		58		 	15	15A
	60	41	1	1		7.50%		1	95	10 min	35	94	20 sec		30 560				10 min		60		 	15	15A
	63	44		†		7.50%		1	95	10 min	35	94	20 sec	,	30 sec	+	45 sec	-	10 min	+	63	-	1	15	15A
	65		1			7.50%		1	95	10 min	35	94	20 sec	+	30 sec				10 min	+	85		1	15	158
	51		L	L8	1.5		62		85	10 min	35	84	20 sec		30 sec		45 sec			:10-5				15	158
	52	32	L	L8	1.5		62		95	10 min	35	94	20 sec		30 sec	*	45 sec		10 min	:10-5	52	32		15	15B
	55	_			1.5		62		95	10 min	35	94	20 sec		30 560				10 min		55			15	15 8
	57	38		1	1.5		62	1	95	10 min	35	94	20 sec	62	30 sec	72	45 sec	72	10 mir	I NA	57	38		15	158

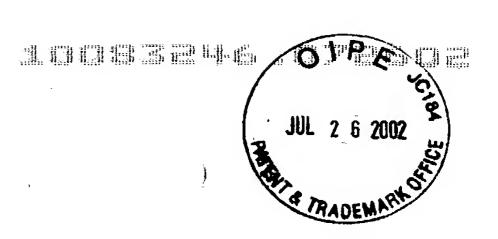


FIG 12 Cont.

Verified			Amp8-	Long	Mg	DMSO		initial	Initial	# 1	Cycle	Cycle		,			Final	Final	LR			Ampl-	[
Ву		Exon	CON	Range			Anneal	Denatur	Deneture	Cycles	Denatur	Denatur	Anneal	Anneal	Ext	Ext	Ext	Ext	Dilution	•	Exon	con		
				PCR			Temp	Temp	Tim●		Temp	Time	Temp	Time	Temp	Тіпти	Temp	Time						lacksquare
	68	1	 -		1.1	5%	72	95	10 min	35	95	45 sec	72	2min	72	1 min	72	10 min	NA.	66	1		15	164
	68		Ĉ		1.1	5%	72	95	10 min	35	95	45 sec	72	2min	72	1 mln	72	10 mln	NA.	88		С	15	16/
	67		B		1.1	7.50%	74	95	10 mln	35	95	45 sec	74	2min	74	1 min	74	10 min	NA.	67		В	17	17/
	73	-6			2	0	50	95	10 mln	35	92	40 sec	50	40 sec	72	40 sec	72	10 min	NA	73	6		18	184
	75	8			2	0	50	95	10 min	35	92	40 sec	50	40 sec	72	40 sec	.72	10 min	NA.	75	8		18	184
	76	9			2	0	50	95	10 min	35	92	40 sec	50	40 sec	72	40 sec	72	10 min		.76	9		16	184
	79	12			2	0	50	95	10 min	35	92	40 sec	50	40 sec	72	40 sec	72	10 min	NA.	79	12		18	18/
	70	3			1.5	5%	55	95	10 min	35	92	40 sec	55	40 sec	72	40 sec	72_	10 min		70	3		19	19/
	71	4			1.5	5%	55	95	10 min	35	92	40 sec	55	40 sec	72	40 sec	72	10 min	NA	71	4		19	19/
	72	5			1.5	5%	55	95	10 min	35	92	40 sec	55	40 sec	72	40 sec	72	10 min	NA	72	5		19	19/
	74	7	-		1.5	5%	55	95	10 mln	35	92	40 sec	55	40 sec	72	40 sec	72_	10 min	NA	74	7		19	19/
	77	10			1.5	5%	55	95	10 min	35	92	40 sec	55	40 sec	72	40 sec	72	10 min	NA	77	10		19 .	19/
	78	11			1.5	5%	55	95	10 min	35	92	40 sec	55	40 sec	72	40 sec	72	10 min	NA	78	11		19	19/
	80	13			1.5	5%	55	95	10 min	35	92	40 sec	55	40 sec	72	40 sec	72	10 min	NA	80	13		19	19/
	82	15			1.5	5%	55	95	10 min	35	92	40 sec	55	40 sec	72	40 sec	72	10 min	NA	82	15	i	19	19/
	69	2			2	0	58	95	10 min	35	92	40 sec	58	40 sec	72	40 sec	72	10 min	NA	69	2		20	20/
	81	14			2	0	82	95	10 min	35	92	40 sec	62	40 sec	72	40 sec	72	10 min	NA	81	14		1 21	21/

